

Purchase Order Receipt Listing

Wednesday, March 29, 2017 10:46:30 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO35744 All Receipt Dates All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Rev Date/ Rev Emp	Rev Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO35744	2		M304R0.375	f 0.373	3/31/2017	3/29/2017	24.0000	\$1.77	0.0000	0	\$42.47
CAD	No		304 ROUND BAR 0.375	f	24.0000	PLOU01		\$42.47	0.0000	0	
			m137175								
	3		M304R1.000	f 0.999	3/31/2017	3/29/2017	12.0000	\$6.21	0.0000	0	\$74.55
	No		304 round bar 1.00	f	12.0000	PLOU01		\$74.55	0.0000	0	
			m137175								
	4		M304RO.750	f 0.749	3/31/2017	3/29/2017	24.0000	\$3.98	0.0000	0	\$95.57
	No		304 SS Round bar .750	f	24.0000	PLOU01		\$95.57	0.0000	0	
			m137175								
	5	DAS 48 9-89	M304S16GA	sf 0.556	3/31/2017	3/29/2017	40.0000	\$4.05	0.0000	0	\$161.90
	No		304 3/16 Sheet .063	sf	40.0000	PLOU01		\$161.90	0.0000	0	
			m137175								
	6		M6061T6B0.500X06. f	0.505 x 6.330	3/31/2017	3/29/2017	12.0000	\$7.49	0.0000	0	\$89.91
	No		6061-T6 Bar .500 x 6.00	f	12.0000	PLOU01		\$89.91	0.0000	0	
			m137175								
	7		M6061T6B0.750X02. f		3/31/2017	3/29/2017	12.0000	\$4.83	0.0000	0	\$57.98
	No		6061-T6 Bar .750 x 2.00	f	12.0000	PLOU01		\$57.98	0.0000	0	
			m137175								
	8		M6061T6B00750X00 f		3/31/2017	3/29/2017	20.0000	\$2.07	0.0000	0	\$41.42
	No		.125 6061-T6 Bar .750 x .125	f	20.0000	PLOU01		\$41.42	0.0000	0	
			m137175								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Rev Date/ Rev Emp	Rev Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID/Vendor Name	VC-COP001 Thyssenkrupp Materials CA Ltd										
PO35744	9		M6061T6B1.000X02. f		3/31/2017	3/29/2017	12.0000	\$5.65	0.0000	0	\$67.77
CAD	No		6061-T6 Bar 1.00 x 2.00 m137175	f 1.009 x 2.010	12.0000	PLOU01		\$67.77	0.0000	0	
	10		M6061T6B2.000X01. f		3/31/2017	3/29/2017	24.0000	\$5.53	0.0000	0	\$132.83
	No		6061-T6 Bar 2.00 x 1.25 m137175	2.010 x 1.253	24.0000	PLOU01		\$132.83	0.0000	0	
	11		M6061T6B4.500X4.5 f		3/31/2017	3/29/2017	4.0000	\$57.04	0.0000	0	\$228.16
	No		6061-T6 Aluminum Bar 4.500" X 4.500" m137175	4.517 x 4.517	4.0000	PLOU01		\$228.16	0.0000	0	
	12		M5052H32S.063 sf		3/31/2017	3/29/2017	32.0000	\$2.24	0.0000	0	\$71.54
	No		5052-H32.063 Sheet m137175		32.0000	PLOU01		\$71.54	0.0000	0	
	13		M6061T6S.063 sf		3/31/2017	3/29/2017	96.0000	\$2.55	0.0000	0	\$244.56
	No		6061-T6.063 Sheet m137175		96.0000	PLOU01		\$244.56	0.0000	0	
	15		71401-45		3/31/2017	3/29/2017	1.0000	\$0.00	0.0000	0	\$0.00
	No		PROCUREMENT QUALITY CLAUSES m137175		1.0000	PLOU01		\$0.00	0.0000	0	

Total Received Quantity:
 Total Qty to Inspect (PO U/M): 313.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$1,308.65
 Total Balance Due Quantity: 0.0000

B I L L O F L A D I N G

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

No: PEC 37688
Ship Date 29Mar17 at 11:06 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC- 32720- 1 Your PO # 35744
STAINLESS STEEL ROUND BAR 304L
.375" DIA X 144.0000"

Heat Number 313E Tag No 633306

Quantity 24 FT

PCS 2

MTR Wt LBS 9

2) Our Order PEC- 32720- 2 Your PO # 35744
STAINLESS STEEL ROUND BAR 304L
1.00" DIA X 144.0000"

Heat Number 257E Tag No 633308

Quantity 12 FT

PCS 1

MTR Wt LBS 33

3) Our Order PEC- 32720- 3 Your PO # 35744
STAINLESS STEEL ROUND BAR 304L
.750" DIA X 144.0000"

Heat Number 249M Tag No 633310

Quantity 24 FT

PCS 2

MTR Wt LBS 36

4) Our Order PEC- 32720- 4 Your PO # 35744
STAINLESS STEEL SHEET 304L-2B DUAL GRADE
.0600 Nom X 48.0000" X 120.0000"

Heat Number Y7V5 Tag No 633290

Quantity 40.00 SFT

PCS 1

MTR Wt LBS 96

5) Our Order PEC- 32720- 5 Your PO # 35744
ALUMINUM FLAT BAR 6061-T6511
.50" X 6.00" X 144.0000"

Heat Number 201622503 Tag No 633311

Quantity 12 FT

PCS 1

MTR Wt LBS 43

Page: 1Continued

SPH-29

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 37688

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 29Mar17 at 11:06 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

6) Our Order PEC- 32720- 6 Your PO # 35744

ALUMINUM FLAT BAR 6061-T6511

.750" x 2.00" X 144.0000"

9-89 Heat Number
 201702279

Tag No
 633312

Quantity
 12 FT

PCS
 1

Wt LBS
 22

MTR

7) Our Order PEC- 32720- 7 Your PO # 35744

ALUMINUM FLAT BAR 6061-T6511

.125" x .750" X 240.0000"

9-89 Heat Number
 429847-4

Tag No
 633313

Quantity
 20 FT

PCS
 1

Wt LBS
 3

MTR

8) Our Order PEC- 32720- 8 Your PO # 35744

ALUMINUM FLAT BAR 6061-T6511

1.00" x 2.00" X 144.0000"

9-89 Heat Number
 201702147

Tag No
 633314

Quantity
 12 FT

PCS
 1

Wt LBS
 28

MTR

9) Our Order PEC- 32720- 9 Your PO # 35744

ALUMINUM FLAT BAR 6061-T6511

1.250" x 2.00" X 144.0000"

9-89 Heat Number
 201701206

Tag No
 633315

Quantity
 24 FT

PCS
 2

Wt LBS
 71

MTR

10) Our Order PEC- 32720- 10 Your PO # 35744

ALUMINUM SQUARE BAR 6061-T6511

4.50" X 48.0000"

9-89 Heat Number
 201616843

Tag No
 633330

Quantity
 4 FT

PCS
 1

Wt LBS
 96

MTR

11) Our Order PEC- 32720- 11 Your PO # 35744

ALUMINUM SHEET 5052-H32

.0640 Nom X 48.0000" X 96.0000"

Heat Number Tag No

Quantity

PCS

Wt LBS

MTR

Page: 2Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER
 ALUMINUM • BRASS • COPPER • PLASTIC • STEEL

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

8/17/17-29

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

B I L L O F L A D I N G

No: PEC 37688
Ship Date 29Mar17 at 11:06 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

9-89 5160910177

633291

32.00 SFT

1

29

12) Our Order PEC- 32720- 12 Your PO # 35744

ALUMINUM SHEET 6061 T6

.0640 Nom X 48.0000" X 144.0000"

9-89 Heat Number

Tag No

Quantity

PCS

MTI

Wt LBS

9-89 G2L6720

633292

96.00 SFT

2

84

TOTAL:

Tags
12

PCS
16

LBS
550

Heat Number

*** Chemical Analysis ***

201616843

201622503

201701206

201702147

201702279

249M

257E

313E

429847-4

5160910177

G2L6720

Y7V5

SP17-0329

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 1 SKID, 3 BDLS GW. 733 LBS

Page: 3Continued

ALUMINIUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION
TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

DATE

B I L L O F L A D I N G

No: PEC 37688

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 29Mar17 at 11:06 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

***UNE SURCHARGE D'ENERGIE DE \$25.00

SERA AJOUTEE A CHAQUE COMMANDE.***

***POUR VOS BESOINS D'ACIER INOXYDABLE,

CONTACTEZ-NOUS. NOUS L'AVONS! TEL. 800-926-2600

Page: 4 Last

ALUMINUM • LAITON • CUIVRE • PLASTIQUE • ACIER INOX
ALUMINUM • BRASS • COPPER • PLASTICS • STAINLESS

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

TVQ/QST# 1017327981 TQ001 TPS/GST TVH/HST # 140223934 RT0001

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
3.75" DIA X 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:



BL PEC-037688-001

29Mar17
Pg 1/1



North American Stainless Canada Inc.
740 Imperial Road North
Cueph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 276490 3 Mail To:

Customer: 007206 001 THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:

THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 3/23/2017 Page: 1

Steel: 304/304L

Finish: CD

Corrosion: ASTM A262-10 Pirc A/E OK

Your Order: PEC280739

NAS Order: PN 0076825 01

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
DIN 30400/30403 EN 10204 3.1, ASTM A484/15
ASTM A276/16, ASTM A479/16, ASTM A182/13 CHEM ONLY,
ASME SA479/13, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763D, QQS-763F, ASTM F899/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 OR B8
ASTM A193/10A-ASME SA193/10 CL 1 OR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AOD+CC, NO WELD REPAIR, MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
B15778 8		.3750		887	144.00	22	1	

CHEMICAL ANALYSIS										
CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)										
Chemical Analysis per ASTM A751/14a										
NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
313E	US	.0215	.1885	18.2225	.5325	1.3320	.3125	.0728	8.5530	.0300

S % SI %
.0240 .2255

MECHANICAL PROPERTIES

Product Id	1 d o i c r	HB	No.	.2YS	UTS	RA	Elong % 2"
B15778 8	R L	227.0	97.27	111.36	68.40	38.30	

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.



THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
750" DIA X 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-037688-003
29Mar17
Pg 1/1



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Chen, KY 41045-9615
(502) 347-6000

Certificate: 256128 12 Mail To:
Customer: 007206 001 THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 1/17/2017 Page: 1
Steel: 304/304L
Finish: CD

Your Order: PEC279830

NAS Order: PN 0075443 03

Corrosion: ASTM A262-10 Frac A/E OK

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/15
ASTM A276/15, ASTM A479/15, ASTM A182/13 CHEM ONLY,
ASME SA182/13, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763D, QQS-763F, ASTM F699/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.225-7009 EU DIRECTIVE
2011/65/EU, ROHS, EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product ID	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BI4339 6		.7500		1.231	144.00	2	1	

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
249M	9-89	US	.0220	.1765	18.0555	.4385	1.3535	.3305	.0753	8.5315
		S %	SI %							
		.0280	.2420							.0280

MECHANICAL PROPERTIES

Product ID	1/4 o.d. x l	HB	.2YS KSI	UTS KSI	RA %	ELong % AD
BI4339 6	R L	191.0	70.71	96.74	71.25	41.02

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

KRIS TARK

1/17/2017

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL SHEET 304L-2B DUAL GRADE
.0600 Nom X 48.0000" X 120.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-037688-004
29Mar17
Pg 1/1



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 176823 1 Mail To:
Customer: 007206 001 THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Date: 5/11/2016 Page: 1
Steel: 304L
Finish: 2B

Your Order: PEC273632

NAS Order: WN 0076560 01

Corrosion: ASTM A262/15 A; 180Bend-OK

PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED. UNS 30403
ASTM A240/15B, A480/15, A666/15, ASME SA240/15, SA480/15, SA666/15
CHEM ONLY ON FOLLOWING ASTM: A276/16, A479/16, A484/15, A312/16
CHEM ONLY ON FOLLOWING ASME: SA312/13, SA479/13
AMS 551H XMRR; MIL-5059D AMD3(X CRN MEAS); MIL-4043B
NACE MR0175/ISO 15156-3:2009 A, MR0103/07, Q05766D-A X MAG PERM
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED

REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.
EN 10204:2004 3.1; ROHS 1 & 2 Compliant
Material is Free of Radioactive Contamination
Steel Making Process: EAF, AOD, & Cont. Casting
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001
*Melted & Manufactured in the USA; Mat'l is DPMs Compliant

Product Id	Coil #	Std #	Thickness	Width	Weight	Length	Mark	Pieces	Commodity Code
03Y7V5 BA	03Y7V5 B		.0575	48.0000	2.886	120.00		30	

HEAT	CM	C %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
Y7V5	DS	.0202	18.0730	.4610	1.7915	.3580	.0787	8.0040	.0340	.0010

SI %
.2175

Mechanical Properties

Product Id#	Coil #	1 d o i c r	UNS	20C .2% YS	20C Elong	% Hard	Tail
03Y7V5 BA	03Y7V5 B	F T	98.48	50.60	50.80	88.00	87.50

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy
of the test methods used, the material meets the specifications stated. These results relate only to the items
tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
50" X 6.00" X 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results
BL PEC-037688-005
29 Mar 17
Pg 1/2



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
281722	7

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 1,524 lbs 36 pcs

MANIFEST NUMBER 319809
CUSTOMER PO PEG-280079
CUSTOMER PART NUMBER PL0102

DIE NUMBER PL0102
DATE OF SHIPMENT 1/17/2017
ALLOY/TEMPER 6061-T6511
SALESPERSON D. Schroeder (Canada)
DESCRIPTION PL 500x6.000

CERTIFICATION
ASTM-B221-14 StencilCont
SPECIFICATION
AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
9	201621892	12/23/16	min 42.80	min 39.40	min 12.10
6	201622503	1/5/17	max 46.10	max 42.80	max 19.90
			42.80	44.00	40.60
					12.50
					15.90

DAS
9
9-89

SCM products are melted and extruded in the USA

Calvin L. Wiggins

Print Date: 1/17/2017

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
.50" X 6.00" X 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-037688-005

29Mar17
Pg 2/2

Certificate of Mill Test Results



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



BILL TO ThyssenKrupp Materials NA-Concord, ON	MANIFEST NUMBER 319809	DIE NUMBER PL0102	DATE OF SHIPMENT 1/17/2017	CERTIFICATION ASTM-B221-14 StencilCont
SHIP TO ThyssenKrupp Materials NA-Concord, ON	CUSTOMER NO. PEC-280079	ALLOY / TEMPER 6061-T6511	SALESPERSON D. Schroeder (Canada)	SPECIFICATION AMS-QQA-200/8 Rev-A
Quantity Certified 1,524 lbs	36 pcs	CUSTOMER PART NUMBER PL0102	DESCRIPTION PL 500X6 000	

OUR ORDER NUMBER 281722	ITEM 7
----------------------------	-----------

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	DA ⁹ Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
9-89														
2K161210C	201621892	6061	0.64	0.20	0.17	0.07	0.89	0.07	<0.01	0.02	97.93	0.05	0.15	United States of America
2K161210Y	201621892	6061	0.64	0.24	0.21	0.09	0.90	0.07	0.01	0.02	97.83	0.05	0.15	United States of America
2K161228D	201622503	6061	0.63	0.24	0.18	0.10	0.88	0.07	0.04	0.02	97.84	0.05	0.15	United States of America
2K161230C	201622503	6061	0.60	0.21	0.20	0.08	0.87	0.06	0.03	0.02	97.92	0.05	0.15	United States of America
2K161231C	201622503	6061	0.62	0.21	0.22	0.08	0.87	0.07	0.02	0.02	97.90	0.05	0.15	United States of America
2M161113B	201621892	6061	0.62	0.20	0.20	0.08	0.85	0.07	<0.01	0.02	97.96	0.05	0.15	United States of America
2M161208C	201621892	6061	0.63	0.17	0.20	0.08	0.85	0.07	<0.01	0.02	97.98	0.05	0.15	United States of America
2M161230C	201622503	6061	0.60	0.21	0.20	0.08	0.87	0.06	0.03	0.02	97.92	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 1/17/2017

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
.750" x 2.00" x 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

BL PBC-037688-006

29Mar17
Pg 1/1

Certificate of Mill Test Results

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



Service Center Metals
5850 Quality Way
Prince George, VA 23875



OUR ORDER NUMBER	ITEM
285784	6

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 5,080 lbs 240 pcs

MANIFEST NUMBER 324410
CUSTOMER NO PEC-281030
CUSTOMER PART NUMBER RB0115

DIE NUMBER RB0115
ALLOY/TEMPER 6061-T6511
DESIGNATION SCRB .750x2.000
DATE OF SHIPMENT 2/28/2017
SALESPERSON D.Schroeder (Canada)

CERTIFICATION
ASTM-B221-14 StencilCont
SPECIFICATION
AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DEARS compliant.

Mechanical Properties

Tests **Lot No.**
9 201702279

Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
	min	max	min	max	min	max
2/15/17	46.20	49.90	42.70	46.10	13.20	19.30

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
001K170205C	201702279	6061	0.75	0.37	0.31	0.11	0.89	0.10	0.03	0.02	97.42	0.05	0.15		United States of America
02091701	201702279	6061	0.72	0.37	0.34	0.11	0.86	0.08	0.06	0.02	97.44	0.05	0.15		United States of America
02111702	201702279	6061	0.74	0.40	0.32	0.12	0.89	0.08	0.05	0.02	97.38	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Print Date: 2/28/2017

Calvin J. Wiggins, Director of Quality & Technical Services

THYSSENKRUPP MATERIALS NA

PO/Rel 35744

Certificate of Mill Test Results

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
1.00" x 2.00" x 144.0000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-037688-008

29Mar17
Pg 1/1



Can Do.

Prince George, VA 23875

Service Center Metals

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



COA ORDER NUMBER	ITEM
285776	11

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 4,626 lbs 162 pcs
MANIFEST NUMBER 324409
CUSTOMER PO PEC-281029
CUSTOMER PART NUMBER MRB0477
DIE NUMBER MRB0477
DATE OF SHIPMENT 2/28/2017
ALLOY / TEMPER 6061-T6511
SALES PERSON D. Schroeder (Canada)
DESCRIPTION MCRB 1.000X2.000
CERTIFICATION ASTM-B221-14 StencilCont
SPECIFICATION AMS-QQA-200/8 Rev-A

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DfARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
12	201700545	1/18/17	min 48.60	min 45.10	min 12.80
12	201702147	2/13/17	max 50.80	max 47.60	max 19.00
			53.20	50.30	14.00

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
001K170201Y	201702147	6061	0.74	0.38	0.32	0.10	0.90	0.10	0.09	0.03	97.36	0.05	0.15		United States of America
001K170205Y	201702147	6061	0.74	0.35	0.30	0.10	0.86	0.08	0.04	0.02	97.52	0.05	0.15		United States of America
001M170205Y	201702147	6061	0.76	0.37	0.29	0.10	0.87	0.08	0.04	0.02	97.46	0.05	0.15		United States of America

SCM products are melted and extruded in the USA

Print Date: 2/28/2017

Calvin J. Wiggins, Director of Quality & Technical Services

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM PLAT BAR 6061-T6511
1.250" x 2.00" x 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-037688-009

29Mar17
Pg 1/1



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS



Signed by:

OUR ORDER NUMBER	ITEM
283658	11

BILL TO ThyssenKrupp Materials NA-Concord, ON	MANIFEST NUMBER 321901	DATE OF SHIPMENT 27/2017	CERTIFICATION ASTM-B221-14 Stencil/Cont
SHIP TO ThyssenKrupp Materials NA-Concord, ON	CUSTOMER PO PEC-280459	ALLOY/TEMPER 6061-T6511	SPECIFICATION AMS-QQA-200/8 Rev-A
Quantity Certified 2,495 lbs	CUSTOMER PART NUMBER MRB1792	DESCRIPTION MQRB 1.250x2.000	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material meet the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DfARS compliant.

Mechanical Properties		Test Date		Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
Tests	Lot No.			min	max	min	max	min	max
	201701206	1/30/17		49.30	51.20	45.50	47.40	15.80	19.10

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Total	Melt Source:
01211701	201701206	6061	0.74	0.39	0.32	0.10	0.89	0.08	0.06	0.02	97.40	0.05	0.15	United States of America
01231703	201701206	6061	0.73	0.36	0.30	0.10	0.90	0.08	0.08	0.02	97.43	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 27/2017

Calvin J. Wiggins, Director of Quality & Technical Services

THYSSENKRUPP MATERIALS NA

PART AEROSPACE
ALUMINUM SQUARE BAR 6061-T6511
4.50" X 48.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by:

BL PEC-037688-010

29Mar17
Pg 1/1

Certificate of Mill Test Results



Can Do.

Service Center Metals
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO
ThyssenKrupp Materials NA-Concord, ON
SHIP TO
ThyssenKrupp Materials NA-Concord, ON
Quantity Certified 1,152 lbs 4 pcs

MANIFEST NUMBER 309168
CUSTOMER PO PEC-278066
CUSTOMER PART NUMBER MSQ0722

DIE NUMBER MSQ0722
ALLOY / TEMPER 6061-T6511
SALESPERSON D. Schroeder (Canada)
DESCRIPTION MOSQ 4.500 + 0341-0

DATE OF SHIPMENT 9/30/2016
CERTIFICATION ASTM-B221-14 StencilCont
SPECIFICATION AMS-QQA-200/8 Rev-A

OUR ORDER NUMBER	ITEM
274068	2

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. This product is RoHS-2, REACH, and DFARS compliant.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
1	201616843	9/29/16	min 50.40 max 50.40	min 46.20 max 46.20	min 12.55 max 12.55

DAS
9
9-89

Chemical Composition for Aluminum Alloy 6061

Cast #	Lot No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source:
1K160924B	201616843	6061	0.75	0.37	0.32	0.10	0.88	0.10	0.04	0.02	97.41	0.05	0.15	United States of America
1M160925C	201616843	6061	0.75	0.37	0.32	0.10	0.88	0.10	0.04	0.02	97.42	0.05	0.15	United States of America

SCM products are melted and extruded in the USA

Print Date: 9/30/2016

THYSSENKRUPP MATERIALS NA

PART AEROSPACE
ALUMINUM SHEET 5052-H32
0640 Nom X 48.0000" X 96.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:



Certificate of Mill Test Results
BL PEC-037688-011
29Mar17
Pg 1/1

浙江巨科铝业股份有限公司
ZHEJIANG GKO ALUMINUM STOCK CO., LTD
产品 质量 证明 书
MILL CERTIFICATE

TO:
Global Stainless Steel Inc.
2345 Sunfield Rd. Suite # 203
Mississauga, Ontario L4Y 3V3, CANADA
Tel: 905-696-0960 Fax: 905-696-8696

TO:
Global Stainless Steel Inc.
2345 Sunfield Rd. Suite # 203
Mississauga, Ontario L4Y 3V3, CANADA
Tel: 905-696-0960 Fax: 905-696-8696

Conform to ALL AA Standards ASTM B209
5052 H32 Certified to AMS QQ-A250/8 and AMS 4016
3003 H14 Certified to AMS QQ-A250/2, and AMS 4008

ALL Specifications to Latest Revisions

No.	Description	Alloy Temper	Specification (mm)	Lot No.	N. P. (KGS)	Chemical Composition (%)										Mechanical Properties		
						Al	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	F.8	Yield	Elong.
1	ALUMINUM SHEET	5052H32	2.38x12.19x2.38x4	5160910179-A-1	1503	96.9	0.09	0.298	0.002	0.025	2.42	0.204	---	0.007	0.012	225	220	12
2	ALUMINUM SHEET	5052H32	2.38x12.19x2.38x4	5160910179-A-2	1462	96.9	0.09	0.298	0.002	0.025	2.42	0.204	---	0.007	0.012	218	200	12
3	ALUMINUM SHEET	5052H32	2.38x12.19x2.38x4	5160910179-B-1	1463	96.9	0.09	0.298	0.002	0.025	2.42	0.204	---	0.007	0.012	218	200	12
4	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-1	1502	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
5	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-2	1503	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
6	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-3	1504	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
7	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-4	1505	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
8	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-5	1506	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
9	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-6	1507	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
10	ALUMINUM SHEET	5052H32	4.82x12.19x2.38x4	5160910235-A-7	1508	96.9	0.094	0.284	0.003	0.033	2.49	0.193	---	0.006	0.014	220	210	14
11	ALUMINUM SHEET	5052H32	1.27x12.19x2.38x4	5160910179-B-2	1464	96.9	0.093	0.298	0.002	0.025	2.42	0.204	---	0.007	0.012	218	200	12
12	ALUMINUM COIL	5052H32	1.65x12.19x2.38x4	5160910179-A-8	4901	96.9	0.09	0.298	0.002	0.025	2.42	0.204	---	0.007	0.012	218	200	12
13	ALUMINUM COIL	5052H32	1.65x12.19x2.38x4	5160910179-A-9	4902	96.9	0.09	0.298	0.002	0.025	2.42	0.204	---	0.007	0.012	218	200	12

9869
DAS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SHEET 6061 T6
.0640 Nom X 48.0000" X 144.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-037688-012

29Mar17

Signed by:

Pg 1/1



西南铝

产品质量证明书 PRODUCT QUALITY CERTIFICATE

DAS
48
9-89

1/1

17/03/30

编号: 00223201609000072
Serial No:

订货单位 Customer		OLBERT METAL SALES LIMITED									
合同号 Contract No		140038325 SWA16-1207-07-02		产品名称 Product		淬火板		批号 Lot No		62L6720	
合金状态 Alloy And Temper		6061-T6		规格(mm) Dimension		1.6300 * 1219 * 3658		箱数 Box Count		3	
技术标准 Technique Standard		ASTM B209M-2007		片数 Quantity		241					
化学成分标准 Chemical Composition Standard		ASTM B209M-2007		重量(kg) Weight		4,572.000					
机械性能 Mechanical Property											
状态 Temper	取样方法 Sampling Method	抗张强度(MPa) Tensile Strength		屈服强度(MPa) Yield Strength		延伸率(%) Elongation					
		标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value	标准值 Standard Value	实测值 Actual Value				
T6	横向	≥290	350-353	≥240	310-313	≥10	14-14.5				
弯曲 Curve		探伤 Ultrasonic		实际拉伸量 Actual Tension							
化学成分 Chemical Composition											
熔炼号 Melt No	元素 Element	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al
	标准值 Standard Value	0.40-0.80	≤0.70	0.15-0.40	≤0.15	0.80-1.20	0.04-0.35	—	≤0.25	≤0.15	余量
G214060	实测值 Actual Value	0.71	0.3	0.26	0.03	1.0	0.14	—	0.03	0.02	Remainder
包膜厚度(μm) Adhesion		晶粒度 Grain Size		杯突 Cup Bulge		硬度 Hardness		电导率 Conductance			
标准值 Standard Value		标准值 Standard Value		标准值 Standard Value		标准值 Standard Value		标准值 Standard Value			
实测值 Actual Value		实测值 Actual Value		实测值 Actual Value		实测值 Actual Value		实测值 Actual Value			
高倍 Microstructure		低倍 Macrostructure		氢含量(ml/100gAl) Hydrogen Content		标准值 Standard Value					
表面质量 Surface Control		几何尺寸 Dimension Control		合格		实测值 Actual Value					
备注 Note											

质量、环境、职业健康安全分别通过ISO9001、AS9100、ISO14001、GB/T28001管理体系认证。

声明：本产品符合订货标准和合同要求。

Quality, Environment and Professional Health & Safety Management System have Certified as per ISO 9001, AS9100, ISO14001 and GB/T28001.

Statement: The product conform to the requirements of order standard and contract.

检查员: YY-TUYH
Inspector

日期:
Date



防伪按4008155888或登陆
www.swa.com.cn查询真伪
SWA 2150402161556

西南铝业(集团)有限责任公司
SOUTHWEST ALUMINIUM (GROUP) CO., LTD.
地址: 中国 重庆 南岸 Address: Xibang Town, Chongqing City, China 电话: TEL: (08623) 85806658

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
.125" x .750" X 240.0000"
PART NO.

PO/Rel 35744

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-037688-007

29Mar17

Signed by: 

Attn:

Pg 1/1

CAN ART

ALUMINUM EXTRUSIONS INC.

Material Test Report

Manifest: 316387

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Ticket:
5506879

Our Order: 429847-4

D/Cust P.O.: 278787

Die: ES05485

Part: 05485-000-240

Alloy Temper: 6061 T6511

Description: .125 x .750

Print Date: 10/27/16

Chemical Composition Range

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length
424907	3B4184	A11	10/27/16	46.69	42.47	13.6

Applicable Specifications: ASTMB221-14 AMS-QQ-A200/8A

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Siddharth Desai - Tensile Testing

Authorized:



Evan Eng, Quality Assurance Manager

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
STAINLESS STEEL ROUND BAR 304L
1.00" DIA X 144.0000"
PART NO.

PO/Rel 35744
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: _____
Attn: _____

Certificate of Mill Test Results
BL PEC-037688-002
29Mar17
Pg 1/1



North American Stainless Canada Inc.
740 Imperial Road North
Guelph, ON N1K1Z3
Canada

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 262542 3 Mail To:

Customer: 007206 001 THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4X5C6

Ship To:

THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4X5C6

Date: 2/07/2017 Page: 1

Steel: 304/304L

Finish: CD

Your Order: PEC280990

NAS Order: IN 0242859 01

Corrosion: ASTM A262-10 PRAC A/B OK
Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw
UNS 30400/30403 EN 10204 3.1, ASTM A484/15
ASTM A276/16, ASTM A479/16, ASTM A182/13 CHEM ONLY,
ASME SA479/13, ASME SA182/10 CHEM ONLY
AMS 5639H, AMS 5647J, AMS QQS-763D, QQS-763P, ASTM F899/11
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8
ASTM A193/10A-ASME SA193/10 CL 1 GR B8

REMARKS:

COMPLIES W/REQUIREMENTS OF DEAR 252.235-7009 ED DIRECTIVE
2011/65/EU. ROHS. EAF+AD+CC. NO WELD REPAIR. WETTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Std #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BI4682 7		1.0000		1.208	144.00	2	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZK(South Africa) JP(Japan) Lab Accreditation Bureau, ISO/IEC 17025, Certificate# I2323
Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	CO %	CR %	CU %	MAN %	MO %	N %	NI %	P %
257E	US	.0171	.1820	18.0440	.4285	1.4280	.3450	.0754	8.5295	.0295

S %	SI %
.0235	.2245

MECHANICAL PROPERTIES

Product Id	1 d o i e r	HB No.	.2YS KSI	UTS KSI	RA %	Ring % 4D
BI4682 7	RL	203.0	79.32	107.85	62.05	41.27

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy
of the test methods used, the material meets the specifications stated. These results relate only to the items
tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B4.500x4.500
 DATE: 17-04-03

PO / BATCH NO.: P035744/M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 41
 QUANTITY INSPECTED: 41
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 4.5"
 THICKNESS RECEIVED: 4.517"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	45+MB221
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	HT # 201616843
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-89</u> <u>CB</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B2.000X1.250
 DATE: 17-04-03

PO / BATCH NO.: PO 35744 / MB7175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 8

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.253"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y	N	
CORROSION	Y	<input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y	N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y	N	ASTM B221
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y	N	HF #231731206
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9 00 CB</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061+6B 1.000X2.000
 DATE: 17-04-03

PO / BATCH NO.: P035744/M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: 1.009"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	ASTM B221
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	HT #20702147
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-03 CB</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061 T6 B0.500 X 6.000 PO / BATCH NO.: P035744/M137175
 DATE: 17-04-03

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: _____

THICKNESS ORDERED: .500"
 THICKNESS RECEIVED: .505"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> N	AS+MB221
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> N	HT #201622503
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D	
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> <u>CB</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R 0.750
 DATE: 17-04-03

PO / BATCH NO.: 1035744 / M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750
 THICKNESS RECEIVED: .749
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL	(Y)	N	ASTM A276
CORRECT REF # TO LINK CERT	(Y)	N	H# 249M
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>CB</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304R1.000
 DATE: 17-04-03

PO / BATCH NO.: P035744/M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000"
 THICKNESS RECEIVED: .999"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<u>(N)</u>	
CORRECT FINISH	<u>(Y)</u>	N	
CORROSION	Y	<u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>(Y)</u>	N	
CORRECT MATERIAL	<u>(Y)</u>	N	
CORRECT THICKNESS	<u>(Y)</u>	N	
PHOTO REQUIRED	Y	<u>(N)</u>	
CORRECT MATERIAL	<u>(Y)</u>	N	ASTM A276
CORRECT REF # TO LINK CERT	<u>(Y)</u>	N	H7#257E
CORRECT MATERIAL IDENTIFICATION	<u>(Y)</u>	N	
CORRECT M# ON THE MATERIAL	<u>(Y)</u>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: <u>CB</u> DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304RO.375
 DATE: 17-04-03

PO / BATCH NO.: B035744/M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 24'
 QUANTITY INSPECTED: 24'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .375"
 THICKNESS RECEIVED: .373"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	ASTM A276/16
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	HT#313E
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9 CB</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6S-063
 DATE: 17/03/30

PO / BATCH NO: PO 35744 / 137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 96
 QUANTITY INSPECTED: 96
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063
 THICKNESS RECEIVED: _____
 SHEET SIZE ORDERED: 4x12
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	<u>063 6061T6</u>
CORRECT THICKNESS	(Y) N	<u>.063</u>
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	<u>ASTM B209</u>
CORRECT REF # TO LINK CERT	(Y) N	<u>Heat # G2L6720</u>
CORRECT MATERIAL IDENTIFICATION	(Y) N	<u>M6061T6S-063</u>
CORRECT M# ON THE MATERIAL	(Y) N	<u>M 137175</u>
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING		<u>N/A</u>		

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>48</u> <u>289</u> DATE: <u>17/03/30</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304S16GA
 DATE: 17/03/30

PO / BATCH NO: PO 35744/137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 40
 QUANTITY INSPECTED: 40
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .063
 THICKNESS RECEIVED: .058
 SHEET SIZE ORDERED: 4x10
 SHEET SIZE RECEIVED: 4x10

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	ASTM A240
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	ASTM A240 .058
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	N	304
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	Heat# Y7V5
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	M304S16GA
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	M137175
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>48</u> DATE: <u>17/03/30</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M5052H32S.063
 DATE: 17-04-03

PO / BATCH NO.: P035744/M137125

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 32 SFT
 QUANTITY INSPECTED: 32 SFT
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.03"
 THICKNESS RECEIVED: 0.60"
 SHEET SIZE ORDERED: 4'x8'
 SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL	(Y)	N	
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT MATERIAL <u>Specs</u>	(Y)	N	<u>Qq A 250-8</u>
CORRECT REF # TO LINK CERT	(Y)	N	<u>5160910177</u>
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 9</u>	SIGNED OFF BY: _____		
DATE: <u>17-04-03</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MG6176 B00750X00.125
 DATE: 17-04-03

PO / BATCH NO.: P035744/M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 20'
 QUANTITY INSPECTED: 20'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .125
 THICKNESS RECEIVED: .125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL	(Y) N	
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT MATERIAL	(Y) N	ASTMB721
CORRECT REF # TO LINK CERT	(Y) N	HT #429847
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9</u> DATE: <u>17-04-03</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.750x2.000
 DATE: 17-04-03

PO / BATCH NO.: 1035744/M137175

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 12
 QUANTITY INSPECTED: 12
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .750"
 THICKNESS RECEIVED: .750"
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>Astm B221</u>
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	<u>HT #201702279</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>9-89 CB</u>	SIGNED OFF BY: _____	
DATE: <u>17-04-03</u>	DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35744**

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 1 of 7

Order From :

VC-COP001

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

E-MAILED
MAR 27 2017

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
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1	M304B0.625X3.000	304 BAR .625 X 3.00	3/31/2017 Yes 3/31/2017		12.13 f	\$23.88	\$289.50
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MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE
AS PER ASTM A276 OR ASTM A240

NOTE: AISI 303 NOT ACCEPTABLE

Line Total: \$289.50

2	M304R0.375	304 ROUND BAR 0.375	3/31/2017 Yes 3/31/2017		24.00 f	\$2.35	\$56.40
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MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

Line Total: \$56.40

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note:

3/27/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35744**

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 2 of 7

Order From :

VC-COP001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via:

VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA (Free Carrier)

3	M304R1.000	304 round bar 1.00	3/31/2017	12.00	\$8.25	\$99.00
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DAS
9

Yes

3/31/2017

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

4	M304RO.750	304 SS Roundbar .750	3/31/2017	24.00	\$5.29	\$126.92
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DAS
9

Yes

3/31/2017

MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276

(NOTE: AISI 303 NOT ACCEPTABLE)

5	M304S16GA	304/316 Sheet .063	3/31/2017	40.00	\$5.38	\$215.00
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DAS
9

Yes

3/31/2017

PURCHASE MATERIAL: AISI 304/316 SS SHEET
ANNEALED

SPECIFICATION: MIL-S-5059

OR AMS 5513 (304)

OR AMS 5524 (316)

ORASTMA240

OR ASME SA240

Line Total: \$126.92

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note:

3/27/2017

881703-29



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35744**

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 3 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

6 M6061T6B0.500X06.000 6061-T6 Bar .500 x 6.00 3/31/2017
DAS 9
Yes
3/31/2017

12.00
f

Line Total: \$215.00

\$9.95 \$119.40

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

7 M6061T6B0.750X02.000 6061-T6 Bar .750 x 2.00 3/31/2017
9-89
Yes
3/31/2017

12.00
f

Line Total: \$119.40

\$6.42 \$77.00

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$77.00

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note:

3/27/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35744

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 4 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

8	M6061T6B00750X00.125	6061-T6 Bar .750 x .125	3/31/2017	20.00	\$2.75	\$55.00
			Yes	f		
			3/31/2017			

DAS
9
9-89
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$55.00

9	M6061T6B1.000X02.000	6061-T6 Bar 1.00 x 2.00	3/31/2017	12.00	\$7.50	\$90.00
			Yes	f		
			3/31/2017			

9-89
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$90.00

10	M6061T6B2.000X01.250	6061-T6 Bar 2.00 x 1.25	3/31/2017	24.00	\$7.35	\$176.40
			Yes	f		
			3/31/2017			

9-89
MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note:

3/27/2017

8217-03-29



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO35744

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 5 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms Net 30

Currency CAD

FOB FCA - (Free Carrier)

11 M6061T6B4.500X4.500 6061-T6 AluminumBar 3/31/2017 4.00

DAS

9

9-89

MATERIAL: 6061-T6/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

No

3/31/2017

Line Total: \$176.40

\$75.75 \$303.00

12 M5052H32S.063 5052-H32 .063 Sheet 3/31/2017 32.00

Yes

3/31/2017

sf

Line Total: \$303.00

\$2.97 \$95.00

DAS

9

9-89

MATERIAL: 5052-H32 ALUMINUM SHEET AS PER
QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

Line Total: \$95.00

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note:

3/27/2017



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO35744**

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 6 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA (Free Carrier)

13 M6061T6S.063 6061-T6 .063 Sheet 3/31/2017 96.00 \$3.40 \$326.80
Yes
3/31/2017

DAS

9

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR ASTM B209

sf

SP17-03-29

Line Total: \$326.80

14 M2024T3S.040 2024-T3 .040 sheet 3/31/2017 96.00 \$5.47 \$525.00
Yes
3/31/2017

MATERIAL: 2024-T3 ALUMINUM SHEET
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037
OR ASTM B209

Line Total: \$525.00

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note:

3/27/2017



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1270 Aberdeen Street
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PURCHASE ORDER

Purchase Order ID **PO35744**

Purchase Order Date 3/27/2017

PO Print Date 3/27/2017

Page Number 7 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

15 71401-45

PROCUREMENT
QUALITY CLAUSES

3/31/2017

1.00

\$0.00

\$0.00

No

3/31/2017

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

SP1703-29

Line Total:

\$0.00

PO Total:

\$2,554.42

W
cd

PO Instructions: QUOTATION NO, PEC ST-31348, PEC ST-32561

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 3/27/2017